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## (54) TRANSMISSION DIVERSITY COMMUNICATION SYSTEM

## (57)Abstract:

PURPOSE: To suppress an expansion of a necessary transmission band with in case of executing a transmission diversity, and to utilize effectively a frequency by executing a frequency multiplication related to a receiving signal by a receiving system, in case of carrier wave digital communication.

CONSTITUTION: In a transmitting system 9, an output 6 of a digital data generator 1 is divided into two, and provided to transmitters 2 and 3, and prescribed modulation is executed. Its output 7 and 8 are transmitted simultaneously from a transmitting antenna 4 and 5, received by a receiving antenna 10 of a receiving system 22, and its receiving signal 16 is inputted to a receiver 11. Subsequently, its output 17 is multiplied by a multiple number determined by a modulation index, by a multiplier 12. Next, an output 18 of the multiplier 12 is led to a one-bit delay detector 13, this output 19 is divided into two, and one of them is inputted to a clock reproducer 15, and a reproduced clock 20 is obtained. Also, the other of the output 19 is led to a discriminating and deciding device 14, discriminated and decided by synchronizing it with the reproduced clock 20, and a discriminated output 21 is obtained.



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